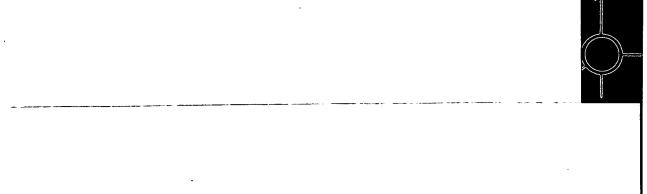
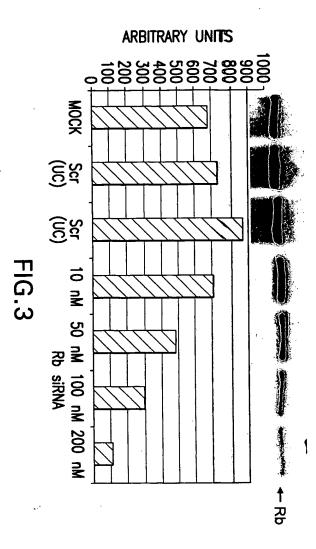


FIG.2







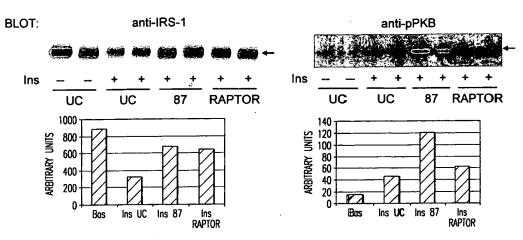
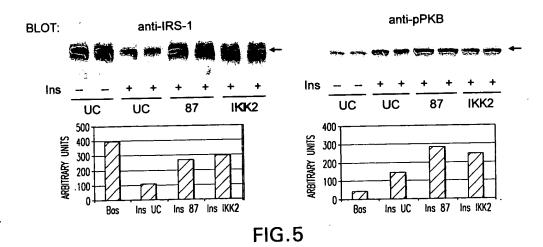
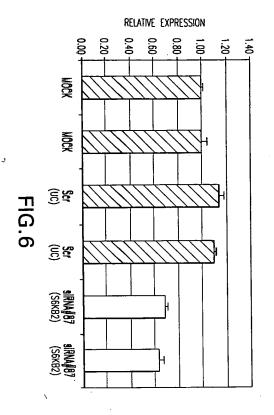


FIG.4







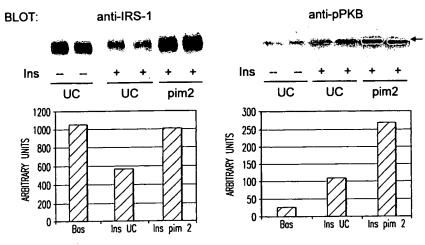


FIG.7

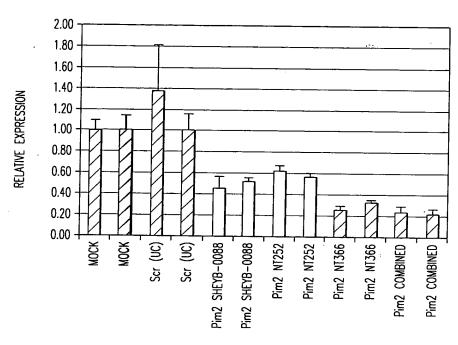


FIG.8

REDUCTION OF PKC0 INHIBITS IRS-1 DEGRADATION AND ENHANCES INSULIN-INDUCED PKB PHOSPHORYLATION

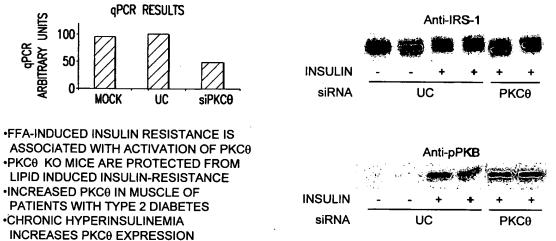
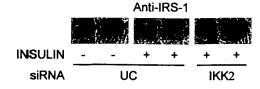


FIG.10

REDUCTION OF IKK2 INHIBITS IRS-1 DEGRADATION AND ENHANCES INSULIN-INDUCED PKB PHOSPHORYLATION

Anti-IKK2



- OVEREXPRESSION OF IKK2 CAUSE INSULIN RESISTANCE
- EXPRESSION OF DOMINANT NEGATIVE IKK2 REVERSES TNF, FFA AND HYPERGLYCEMIA INDUCED RESISTANCE
- IKK2 HAS BEEN SHOWN TO BE A TARGET OF HIGH DOSE SALICYLATES
- HETEROZYGOUS DELETION (ikkbeta+/-)
 PROTECTED AGAINST THE
 DEVELOPMENT OF INSULIN RESISTANCE
 DURING HIGH-FAT FEEDING AND IN
 OBESE (ob/ob) MICE

Anti-pPKB

- + +
siRNA UC IKK2

FIG.11

SALT-INDUCIBLE KINASE-1 (SIK) IS A NEW KINASE INVOLVED IN INSULIN RESISTANCE

		+	SIK						
Anti-pPKB		+	nc						
		+							
		1		ıl glands	pelongs	senes,	animals	er789	
	£	INSULIN	siRNA	•SIK was first cloned from the adrenal glands of rats fed a high salt diet	 Serine/threonine protein kinase that belongs to AMPK family 	SIK1 mRNA is elevated in adipose tissues,	scle of diabetic	horylation of Se	betic animals
Anti-IRS-1		+	SEX	 SIK was first cloned from of rats fed a high salt diet 	reonine prot family	:NA is elevat	livers, and skeletal muscle of diabetic animals	 Involved in the phosphorylation of Ser789 	in IRS-1 in livers of diabetic animals
		+	nc	•SIK was of rats fed	 Serine/threonin to AMPK family 	•SIK1 mR			

INSULIN

siRNA

FIG. 12

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